

**Friday March 20, 2020
MEETING CANCELLED !**

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**FINAL CALL
FOR CLUB DUES
SEE PAGE 7**



Linda Godwin, N5RAX



MARCH 20 MEETING IS CANCELLED !

Certainly by now we are all aware of the continuing international advance of the coronavirus disease (COVID-19) and the recommendations by county, state and federal agencies to minimize contagion by limiting gathering in large groups.

The MDARC Board met in special session last Monday (03/09/2020) to review the Club's stance on meeting cancellations. Although the majority voted to continue with our Club meetings, it became clear with developments during these last few days, that it would be prudent for MDARC to cancel all Club meetings for the remainder of March. This will include the General Membership meeting on the 20th, the two VHF/UHF GOTA sessions, and (most likely) Session One of the General Class License Course.

You should consider that all future MDARC meetings will remain cancelled, including those in April, until the Board has met to re-evaluate the situation and sent an email announcement. Therefore, please watch for future emails.

— Larry Bradley, KK6QPE, President 03/12/2020



Christopher Boggess, N6ITE
Craig McBurney, KD6RDD
Chris Brown, KN6HKM
Randy Silverman, K8TR
Sandy Silverman, (spouse)
John Tague (license pending)
William Trowsdale, AC6MN
Andrew Garibaldi, K6PMX
Donna McBurney KD6RDB
Marlene Dotterer (license pending)
Aaron Lewis (license pending)
Mark Dawson, KF6WJK
Mona Shepard (license pending)
Robert Lynn, KN4ICG
Sobin Magar (license pending)

If you hear any of these new members on the air, please welcome them to our club.

— Roger Hooten, W6UZ



When you purchase at Amazon dot com smile, a portion of your purchase is donated to our club.

Go to:

<https://smile.amazon.com/ch/23-7072059>

ALL MEMBERS ARE INVITED TO JOIN THE CLUB E-MAIL GROUP.

SHARE INFORMATION WITH THE MEMBERSHIP AT:

<https://groups.io/g/MDARC>

(the Yahoo group was abolished)

Mount Diablo Amateur Radio Club W6CX
P.O. Box 23222 Pleasant Hill, CA 94523
(925) 288-1730

The Carrier is a monthly publication of the Mount Diablo Amateur Radio Club (MDARC). It is the policy of the editor to publish all material submitted by the membership provided such material is in good taste, relevant to amateur radio and of interest to MDARC members, and provided space is available.

President - Larry Bradley, KK6QPE
Vice President - Ed Morales, KJ6KYT
Secretary – Larry Loomer, KI6LNB
Treasurer - Cathi Walton, K2CJW
Emergency Coordinator - Ron Bunch, W4FEK

Directors At Large

Trevor Hall, WA6JAU Dave Piersall, N6ORB
Roger Hooten, W6UZ Mike Warren, W6MEW

Membership Chair – Roger Hooten, W6UZ
mdarcmembership@mdarc.org

PACIFICON 2020

Chair: Julie Mah, WJ8MAE
Registration: Debbie Deeble, KN6DOM
Treasurer: Jim Siemons, W6LK
Secretary: Cathi Walton, K2CJW

COMMITTEE CHAIRS AND COORDINATORS

Annual Auction - Jim Siemons, W6LK
Communications Trailer - Mike Warren, W6MEW
Communications Van MDARC-1 - Jim Tittle, K6SOE
Digital Media - Mike Patterson, N6JGA
Education & Training - John Primus, AF6RJ
Field Day - Larry Loomer, KI6LNB
Good & Welfare - Diana Sage, KA6TZX
Holiday Dinner - Misa Siemons, KJ6BUE
License Testing - Larry Loomer, KI6LNB
Outreach - Dick Wade, WM6G
Public Service - Klaus Berkner, K6KHB
Radio Equipment Lending Library - Dave Piersall, N6ORB
Refreshments - Elizabeth Styles, KG6HLV
Repeater Trustee W6LGW - Dick Brown, KT6X
Repeater Trustee W6CX - Jim Tittle, K6SOE
Scholarship - Janice Fujii, KG6VTD
Technical Committee - Jim Siemons, W6LK

***The Carrier* Newsletter**

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Electronic Distribution - Tom Deeble, KA6SIP

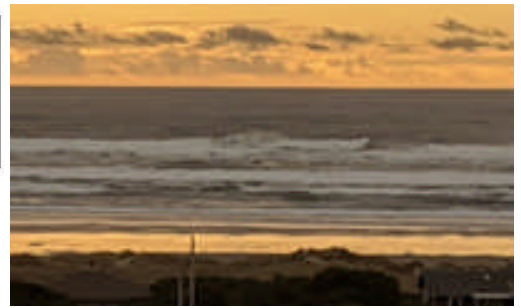
Amateur Television Help and Information:

Fred Coe, WB6ASU wb6asu@icloud.com

President's Message

March 2020

MDARC Family,



The above picture is my “backyard” or at least close to it. As many of you know, I am temporarily staying with my dad who lives on the Oregon coast. He recently celebrated his 99th birthday and has the health to go beyond 100 years.

I brought my “homework” with me to review and update the PowerPoint slides in preparation for our upcoming General Class License Course that starts on March 26. Glad to say that I have nearly completed the review for these nine class sessions and several sets of slides have already been sent to the Discussion Leaders.

These Discussion Leaders are members of the the MDARC Volunteer Instructional Team and when you see them, please be sure to thank them for taking the time to assist others to upgrade their license.

Brian Lotter, KM6NGS
David Piersall, N6ORB
Dick Wade, WM6G
Jim Blodgett, KI6JB
Larry Loomer KI6LNB
Lauren Styles, WA6CIE
Michelle Paquette, AA6MP
Mike Patterson, N6JGA

And as you think about these Discussion Leaders, please consider becoming an Elmer at these sessions. Speaking of Elmers, I am uncertain how this term became part of amateur radio lore, but I do know that Paul Bunyan had Elmers and I have a feeling that it was from their description that the term “Elmer” became ingrained in amateur radio. Never heard of Paul Bunyan? Then it is certain you are not from Minnesota or Wisconsin.

Here is a brief “biography.”

“Paul Bunyan was a hero of North America’s lumberjacks, the workers who cut down trees. He was known for his strength, speed and skill. Tradition says he cleared forests from the northeastern United States to the Pacific Ocean.

Paul's camp was the largest in the country. The camp was so large that a man had to have one week's supply of food when walking from one side of the camp to the other.

Paul decided to get other lumberjacks to help with the work. His work crew became known as the Seven Axemen. Each man was more than 6'7" tall and weighed more than 350 pounds. All of the Axemen were named Elmer. That way, they all came running whenever Paul called them."

So now you may know the origin of the term "elmer." After all, when we think of amateur radio elmers, we think in terms of having many fellow hams willing to come and help us.

Some MDARC news:

--- At the last General Membership meeting we continued our Information & Learning Table program by adding a Public Service Table overseen Klaus Berkner K6KHB and Pete Harris KE6ZIW. Hope you had a chance to stop by and see what services our club provides. Stay tuned for our next Table.

Want some "live action" opportunities to hone your getting-on-the-air public service skills? Then give the 2 Meter Critical Mass a try...

<http://2metercriticalmass.com/>

For Marin County: 3rd Sunday of each month; 10-Noon; Marin County Civic Center Lagoon, SE corner near the fountain. Civic Center Drive and Armory Road—park in the Jury Parking lot there <http://2metercriticalmass.com/northbay-2mcm/>

Nikola Tesla



Marconi is a good fellow. Let him continue. He is using seventeen of my patents.

— Nikola Tesla —

AZ QUOTES

Born: July 10, 1856
Died: January 7, 1943
Occupation: Inventor

"The greatest motivational act one person can do for another is to listen." Roy E. Moody

73

Larry Bradley KK6QPE

02/06/2020

FIELD DAY ANNOUNCEMENT



The annual Amateur Radio Relay League (ARRL) Field Day is one of our club's most important activities. Field Day is all about being prepared and trained to establish emergency communication in the event of a disaster or other public need. Also, Field Day is great fun for ham radio operators across North America!

Field Day gives us an opportunity each year to sharpen our Emergency Communications and portable operating skills.

MDARC has a long and rich history of many successful Field Day operations. We will typically have a multiple

station effort operating SSB, digital, and CW on multiple bands. You can learn more about our Field Day activities at <http://www.mdarc.org/activities/field-day> .

Our Field Day operations are a major undertaking for us each year. We begin planning each year's Field Day Operation for months in advance. Also, we bring together to the site a significant investment in personal Field Day related equipment each year. One of the personal items is KG6PHZ's solar power trailer that produces all of the electricity that we will need for our Field Day activities. It is worth the trip to the Field Day site to see this amazing electrical marvel.

Please join the MDARC Field Day Committee by contacting me at larryloomer@yahoo.com .

Submitted by - Larry Loomer, KI6LNB Field Day Chairman



KG6PHZ solar array (left) and MDARC-1 communications van during ARRL Field Day at Heather Farm Park in Walnut Creek on June 22, 2019. The park is not available this year due to a swim tournament. (N4DLA photo)

My First Radio

By Matthew G. Vurek, N4DLA

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In 1968, probably for Christmas, my parents gave me a tiny (but large to a 7 year old kid) Taiwan-assembled General Electric P1757 transistor radio. It had a black and white plastic case, was powered by a 9 volt battery, received only the AM radio band and had thumbwheel controls for the on-off/volume switch and the tuner. The latter had only one or two digit numbers for the frequencies on the AM broadcast band. Instead of a dial, it had a square “window,” where the digits were visible one at a time. Its retail price back then was \$4.98 (about \$36.00 in 2019 dollars).

At the time, my parents had a Harman-Kardon FM tuner and Garrard turntable connected to a Knight KG-250 amplifier in a large wooden “hi-fi” cabinet in the living room of our Bethesda, Maryland home. My new radio gave me the freedom to tune the airwaves. I now had the ability to listen to AM stations outdoors, or in my room and even in my bed. At night, I discovered I could receive many more radio stations than during the day, especially from far away places like WKBW (now WWKB), a 50 kilowatt “clear channel” station on 1520 KHz in Buffalo, New York, where their announcers reported much more snow in the winter than the Washington, D.C. area would get. I also noticed some local stations that had strong signals during the day seemed to vanish at night, like daytime-only 10 kilowatt “Musicradio”

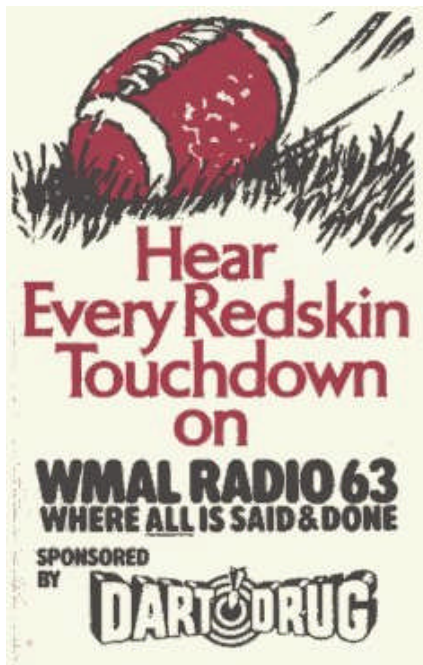
WPGC 1580 KHz in tiny suburban Morningside.

The strongest station was 5 kilowatt WMAL on 630 KHz because its four 400 foot transmitter towers were only 2 miles away to the northwest. It must have had intense field strength, as any electronic project my father worked on that had a speaker seemed to receive WMAL’s signal, probably through overload and rectification through the device’s audio amplifier section. WMAL was one of the most popular stations on the air during that era. The station also broadcast Washington Redskins football games, Washington Senators baseball games and University of Maryland basketball games. The latter two teams were often broadcast at night and I would listen to the games with this radio while in bed.

To avoid buying more 9 volt batteries, my father, the future KF6CVA, added a jack to the radio so it could be plugged into an external power supply he made, which also doubled as a battery charger. The radio was placed into secondary status in late 1971 when a Sony “Digimatic” AM/FM “flip clock” radio, replaced it. Its alarm function was particularly useful for awakening me to get ready for school (and later on, work). It lasted over 15 years until its clock stopped working and I discarded it. Meanwhile, about ten years after I received the GE portable, it was gradually dismantled as a parts source.

Over fifty years have passed since I received my first radio. After 77 years in Bethesda, the WMAL transmitter site and its towers were decommissioned on May 1, 2018. The 75 acre site will be replaced by a 309 unit residential housing development. The transmitter was relocated 12 miles northwest to the WWRC site in Germantown, Maryland with daytime power increased to 10 kilowatts but night time power decreased to 2,700 watts. Redskins football and Maryland basketball broadcasts both left WMAL after the 1991 season but the Redskins returned in 2017. After 94 years with the same call letters, the station became WSBN on July 1, 2019. I earned my novice class amateur radio license in 1977 (WB3GYL) and upgraded to general class the next year. The wooden cabinet that once housed my parents' hi-fi system now hosts a 1990s-era stereo system in my home and I now live next door to KF6CVA, who only seems to get on the air when I need a contact in a VHF contest.

In 2019, I acquired an identical GE P1757 portable radio in its original box with its original paperwork (including its earphone and hand strap) from an online vendor. I could barely contain my excitement when I installed a 9 volt battery, turned it on and heard Bay Area AM radio signals emanating from its tiny speaker. This little radio now produces a lot of nostalgia in my radio shack. However, today's 7 year old kids probably wouldn't be interested in such a simple, "low tech" device.



GENERAL MEMBERSHIP MEETING MINUTES

Our Savior's Lutheran Church, Lafayette, CA February 21, 2020

7:30: The meeting was called to order by the Vice President, Ed Morales, KJ6KYT, in the absence of the President who is out of town. The Pledge of Allegiance was recited by the membership. There were no revisions to the meeting minutes from the previous meeting. The newcomers at the meeting were introduced. The Vice President pointed out the Interest Tables that were active that evening: DX, radio programming (4 radios programmed) and public service. all of which had been very busy before the meeting.

The secretary had no report.

The treasurer's December report showed that there is \$59K+ in the checking account, \$56K+ in the Self-insurance Fund and \$21K+ in the Pacificon Fund.

Emergency Communication: Ron Bunch, W4FEK, announced that he will be talking about insulators next month. Richard Lueck, K6REL, announced that Concord will be placing emergency caches throughout the city. The city is still working out where the caches will be placed. Clayton CERT will be joining Concord CERT. Concord will be having a pajama drill on February 29 for neighborhood hams. Please email Rich if you would like to be a neighborhood ham.

Pacificon: Julie Mah, WJ8MAH, will be the new Pacificon Chairman. Misa Siemons will be doing the Forums. The Pacificon meetings will be on Wednesdays at Julie's house.

Klaus Berkner K6KHB, the Public Service Chairman, announced the Oakland Marathon on March 22 in which MDARC and other clubs participate. They need 45 to 50 hams. The Diablo Trails Challenge will be on April 11. There was a Public Service table at the meeting that night.

Larry Loomer, KI6LNB, the License Testing Chairman, reported that 3 Technicians, 1 General and 0 Extras passed their tests this evening.

Larry Loomer, KI6LNB, the Field Day Chairman, reported that our usual area at Heather Farm Park is not available to us for Field Day this year due to a regional swim meet. Alternate sites being evaluated are Concord Community Park on Cowell Road in Concord and Dave Brubeck Park on Concord Boulevard in Concord. Dave Brubeck Park is inaccessible to our van and our communication trailer and the solar trailer. An application has been made to the City of Concord for use of the Concord Community Park.

It was announced that a chocolate cream pie was the raffle prize for this month.

7:50: The meeting was adjourned.

Respectfully submitted, Larry Loomer, MDARC Secretary.

PARACHUTE MOBILE, MISSION 38



Make a QSO with a skydiver! 146.430 simplex. HF 14.250

SATURDAY MARCH 28TH

Streaming Video



GO TO PARACHUTEMOBILE.ORG FOR DETAILS /



Keep us on the air! Renew your club membership now online at www.mdarc.org or mail your check to Membership Chairman - Roger Hooten W6UZ, 223 Deer Path Ct., Martinez, CA 94553. *Still only \$45 annually!*

2020 Ham Radio Licensing Course Registration Available Now! **General & Extra License upgrade** **info** Mt. Diablo Amateur Radio Club

The General License Class Starts Thursday March 26th

First Class starts at 6:30 the rest are from 7-9pm

General Class at Trinity Lutheran Church, 2317 Buena Vista Ave.
Walnut Creek, CA 94597

The Extra Class starts Tuesday August 11th 2020

(Extra Class size is limited to 25 on a 1st come basis so register early)

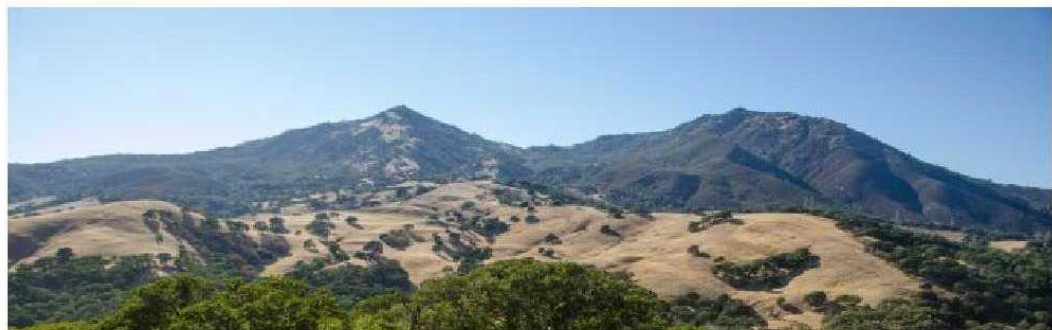
NEW location The Extra Class, Concord PD Community Service Room
1350 Galindo St., Concord CA 94520

Registration fee of \$10 paid **online** is required. We use the ARRL Textbooks – There will be a NEW Extra text book July 1, 2020 - So Wait
Text book details are part of the registration process.
Follow up training and License testing will also be available.

Complete class calendar and registration link below:
<http://www.mdarc.org/activities/education/Classes>

The auto response at HamRadioClass@gmail.com will answer more class questions.

If you have Non License questions email: info@mdarc.org





Saturday, May 2nd, 2020 - Benicia, CA



AMATEUR RADIO LICENSE CLASS

Study Session followed by Exam

When: Saturday, May 2nd, 2020

7:30 AM - 5:00 PM

Where: Benicia Senior Center

1201 East 2nd Street, Benicia

What: Technician Class (beginner's level)

General Class Upgrade (for those already licensed as a Tech)

Fee: \$35.00 (Includes exam fee)

Register: www.BeniciaARC.com

Questions: HamRadioClass@BeniciaARC.com or Bob at (707) 742-3227

Class size is limited and always fills up.



Please Register and Pre-pay online for a guaranteed seat.

No prep or prior study required.



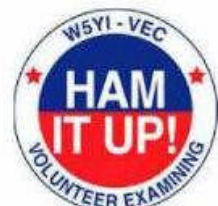
Prospective Hams should plan on attending a free Get-On-The-Air Class after passing their test, to become familiar with Amateur Radio operations

Reserve Your Space - Become a Ham in One Day!



Can't make the upcoming class?
Check our website periodically for our next session.

Element 4 (Extra class)
You need only pay the test fee of \$14. We do not provide study materials for Element 4.



HAM RADIO OUTLET

14 STORE BUYING POWER!

ICOM



IC-7600 | All Mode Transceiver

- 100W HF/6m Transceiver, gen cov. receiver • Dual DSP 32 bit • Three roofing filters- 3, 6, 15kHz • 5.8 in WQVGA TFT display • Hi-res real time spectrum scope



IC-7200 | HF Transceiver

- 160-10M • 100W • Simple & tough with IF DSP • AGC Loop Management • Digital IF Filter • Digital Twin PBT • Digital Noise Reduction • Digital Noise Blanking • USB Port for PC Control



IC-7100 | All Mode Transceiver

- HF/50/144/430/440 MHz Multi-band, Multi-mode, IF DSP • D-STAR DV Mode (Digital Voice + Data) • Intuitive Touch Screen Interface • Built-in RTTY Functions



ID-5100A | VHF/UHF Dual Band Digital Transceiver

- Analog FM/D-Star DV Mode • SD Card Slot for Voice & Data Storage • 50W Output on VHF/UHF Bands • Integrated GPS Receiver • AM Airband Dualwatch • FM Analog/DV Repeater List Function

ID-51A | VHF/UHF Dual Band Transceiver

- 5/2.5/1.0/0.5/0.1W Output • RX: 0.52-1.71, 88-174, 380-479 MHz** • AM/FM/FM-N/WFM/DV • 1304 Alphanumeric Memory Chls • Integrated GPS • D-STAR Repeater Directory • IPX7 Submersible



KENWOOD



TS-590SG | HF/50MHz Transceiver

- Equipped with 500 Hz/2.7 kHz roofing filter as standard • ALC derived from TS-990S eliminating spike issues • Antenna output function (shared with DRV connector) • CW - morse code decoder function



TM-D710G | 2M/440 Dualband

- V+V/V+U/U+U operation • Built-in GPS • Built-in TNC for APRS & DX-Cluster operation • 50W 2M & UHF • 1,000 memories • Dual receive • Green or amber backlight colors • Latest APRS firmware w/new features • Sky Command II remote functions



TM-V71A | 2M/440 DualBand

- High RF output (50W) • Multiple Scan • Dual receive on same band (VxV, UxU) • Echolink® memory (auto dialer) • Echolink® Sysop mode for node terminal ops • Invertible front panel • Choice of green/amber for LCD panel • 104 code digital code squelch



TM-281A | 2 Mtr Mobile

- 65 Watt • 200 Memories • CTCSS/DCS • Mil-Std specs • Hi-quality audio

TH-F6A | 2M/220/440

- Dual channel receive • .1 - 1300 MHz (cell blocked) RX • FM, AM, SSB • 5W 2M/220/440 TX, FM • 435 Memories • Li-Ion Battery



YAESU
The radio



FT-991 | HF/50MHz/2M/440 Transceiver

- 160 M-440MHz - SSB/CW/FM/C4FM Digital/AM/RTTY/PSK • 100 W (2M/440: 50 Watts) • 3.5" TFT full-color touch panel operation • High speed spectrum scope • Roofing filters: 3kHz & 15kHz • 32-bit high speed floating point IF DSP



FTDX1200 | 100W HF + 6M Transceiver

- Triple Conversion Receiver With 32-bit Floating Point DSP • 40 MHz 1st IF with selectable 3 kHz, 6kHz & 15 kHz Roofing Filters • Optional FFT-1 Supports AF-FFT Scope, RTTY/PSK31 Encode/Decode, CW Decode/Auto Zero-In • Full Color 4.3" TFT Display



FT-450D | A100W HF + 6M Transceiver

- 100W HF/6M • Auto tuner built-in • DSP built-in • 500 memories • DNR, IF Notch, IF Shift



FTM-400DR | 2M/440 Mobile

- Color display-green, blue, orange, purple, gray • GPS/APRS • Packet 1200/9600 bd ready • Spectrum scope • Bluetooth • MicroSD slot • 500 memory per band

FT-60R | 2M/440 5W HT

- Wide receiver coverage • AM air band receive • 1000 memory channels w/alpha labels • Huge LCD display • Rugged die-cast, water resistant case • NOAA severe weather alert with alert scan



5 Ways to Shop!

- RETAIL LOCATIONS - Store hours 10:00AM - 5:30PM - Closed Sunday
- PHONE - Toll-free phone hours 9:30AM - 5:30PM
- FAX - All store locations
- ONLINE - WWW.HAMRADIO.COM
- MAIL - All store locations

ANAHEIM, CA
(800) 854-6046

OAKLAND, CA
(877) 892-1745

BURBANK, CA
(877) 892-1748

SAN DIEGO, CA
(877) 520-9623

NEW CASTLE, DE
(800) 644-4476

PORTLAND, OR
(800) 765-4267

DENVER, CO
(800) 444-9476

PHOENIX, AZ
(800) 559-7388

ATLANTA, GA
(800) 444-7927

WOODBIDGE, VA
(800) 444-4799

SALEM, NH
(800) 444-0047

PLANO, TX
(877) 455-8750

ONLINE STORE
WWW.HAMRADIO.COM

New Store!

Contact HRO for promotion details. Toll-free including Hawaii, Alaska and Canada. Call will be routed to the nearest store. All HRO 800-lines can assist you. If the first line you call is busy, you may call another. AZ, CA, CO, GA, VA residents add sales tax. Prices, specifications and descriptions subject to change without notice.



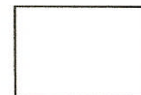
The Carrier

Newsletter of the Mt. Diablo Amateur Radio Club

P.O. Box 23222

Pleasant Hill, CA 94523

www.mdarc.org



**THIS MONTH'S
MEETING IS
CANCELLED !!**

FIRST CLASS

<https://www.facebook.com/mdarc.org>

W6CX Nets

M-F 5:42 am Morning Muster 147.060+ 224.780- 441.325+

M-F 6:10am Commuter Net 147.060+ 224.780- 441.325+

Monday 8:00 pm SATERN Net 147.060+

Tuesday 7:30 pm Fat City 10 meter USB/CW Net 28.420 MHz

Tuesday 8:00pm Digital Practice Net 147.060+ 224.781-
441.325+

Wednesday 7:00 pm SKYWARN Net 147.060+

Thursday 7:30 pm MDARC Club Net 147.060+

Thursday 8:00 pm Amateur Television Net 147.060+

FM 147.060 MHz + / PL 100Hz -

224.780 MHz - / PL 77Hz 441.325 MHz + / PL 100Hz

EchoLink: W6CX-R /133896, IRLP: 3057

<https://www.broadcastify.com/listen/feed/25334>

D-STAR 145.000 offset plus 2.5 MHz

<https://w6cx.dstargateway.org/>

ATV Internet Stream: <http://w6cxatv.mdarc.org/>

Contra Costa County Emergency Communications Nets

Every Thursday

<http://www.coco-races.org/meetings/nets/>

6:35 pm HF Countywide 3.893 MHz LSB

6:45 pm West County 145.110-- (82.5 PL)

7:00 pm Central County 145.680 Simplex

7:00 pm East County 146.535 Simplex

7:00 pm South County 147.480 Simplex

7:20 pm Countywide 145.490-- (107.2 PL)

or 147.735-- (107.2 PL)

or 145.410-- (107.2 PL)

Concord Auxiliary Radio Emergency Service (CARES)

Wednesday 8:00pm 147.405 Simplex

Digital Amateur Television Repeater

Digital ATV Output: 1244.500

Digital ATV Inputs: 1292.500, 1273.0, 917.0, 430.0

Analog ATV Input: 1270.000 FM (PL 192.8)

March 2020 and April 2020 Club Calendar

Friday March 20, 2020

GENERAL MEETING CANCELLED !!

Saturday April 4, 2020

MDARC Technical Committee Meeting - **CANCELLED !!**

Monday April 6, 2020

MDARC Board of Directors Meeting - **CANCELLED !!**

Friday April 17, 2020

MDARC ANNUAL AUCTION **POSTPONED !!**